Amendments to the Claims

Please amend Claims 3-5 and 9-11 to read as follows.

1. (Original) A liquid detection method comprising:

a detection step of detecting electromagnetic waves radiated from an area of a discharge path of liquid discharged from a liquid supply source by using a detection unit provided near the discharge path;

a minimize step of minimizing electromagnetic waves radiated from a medium other than the liquid or variation in the electromagnetic waves during detection of the electromagnetic waves in said detection step; and

a determination step of determining whether or not the liquid is present and, if present, determining the amount of the discharged liquid based on the electromagnetic waves detected in said detection step.

2. (Original) A liquid detection apparatus comprising:

detection means, provided near a discharge path of liquid discharged from a liquid supply source, for detecting electromagnetic waves radiated from an area of the discharge path;

suppression means for minimizing electromagnetic waves radiated from a medium other than the liquid or variation in the electromagnetic waves during detection of the electromagnetic waves by said detection means; and

determination means for determining whether or not the liquid is present and, if present, determining the amount of the discharged liquid based on the electromagnetic waves detected by said detection means.

- 3. (Currently amended) The apparatus according to claim 2, wherein: wherein the electromagnetic waves are infrared rays; rays and said detection means is comprises an infrared sensor.
- 4. (Currently amended) The apparatus according to claim 3, wherein said suppression means is comprises a shield provided in front of a source of infrared rays radiated from a medium other than the liquid.
- 5. (Currently amended) The apparatus according to claim 3, wherein said suppression means is comprises a housing that covers the infrared sensor and an infrared ray detection field of the infrared sensor.
- 6. (Original) The apparatus according to claim 5, wherein the housing is provided with an opening for passage of the discharged liquid.
- 7. (Original) The apparatus according to claim 5, wherein an air intake opening is provided on the housing, and a fan is provided at a position opposite the air intake opening on the housing so as to generate a steady air flow inside the housing.

- 8. (Original) The apparatus according to claim 3, wherein the liquid includes ink.
- 9. (Currently amended) The apparatus according to claim 8, wherein: wherein the liquid supply source is comprises an inkjet printhead; printhead, and the infrared sensor is located in front of ink discharge nozzles on of the inkjet printhead, near a flight area the discharge path of ink droplets discharged from the inkjet printhead.
- 10. (Currently amended) The apparatus according to claim 8, wherein. wherein the liquid supply source is comprises an ink tank; tank, and the infrared sensor is located near a tube connected to an outflow outlet provided in the ink tank.
- 11. (Currently amended) A printing apparatus using a liquid detection apparatus according to anyone of claims 2-10, comprising:

an inkjet printhead having an electrothermal transducer which generates heat energy to be applied to ink in order to discharge the ink by using the heat energy; and adjustment means for adjusting the temperature of the ink for detection of ink droplet droplets by the liquid detection apparatus by sending an applying electric current into to the electrothermal transducer.